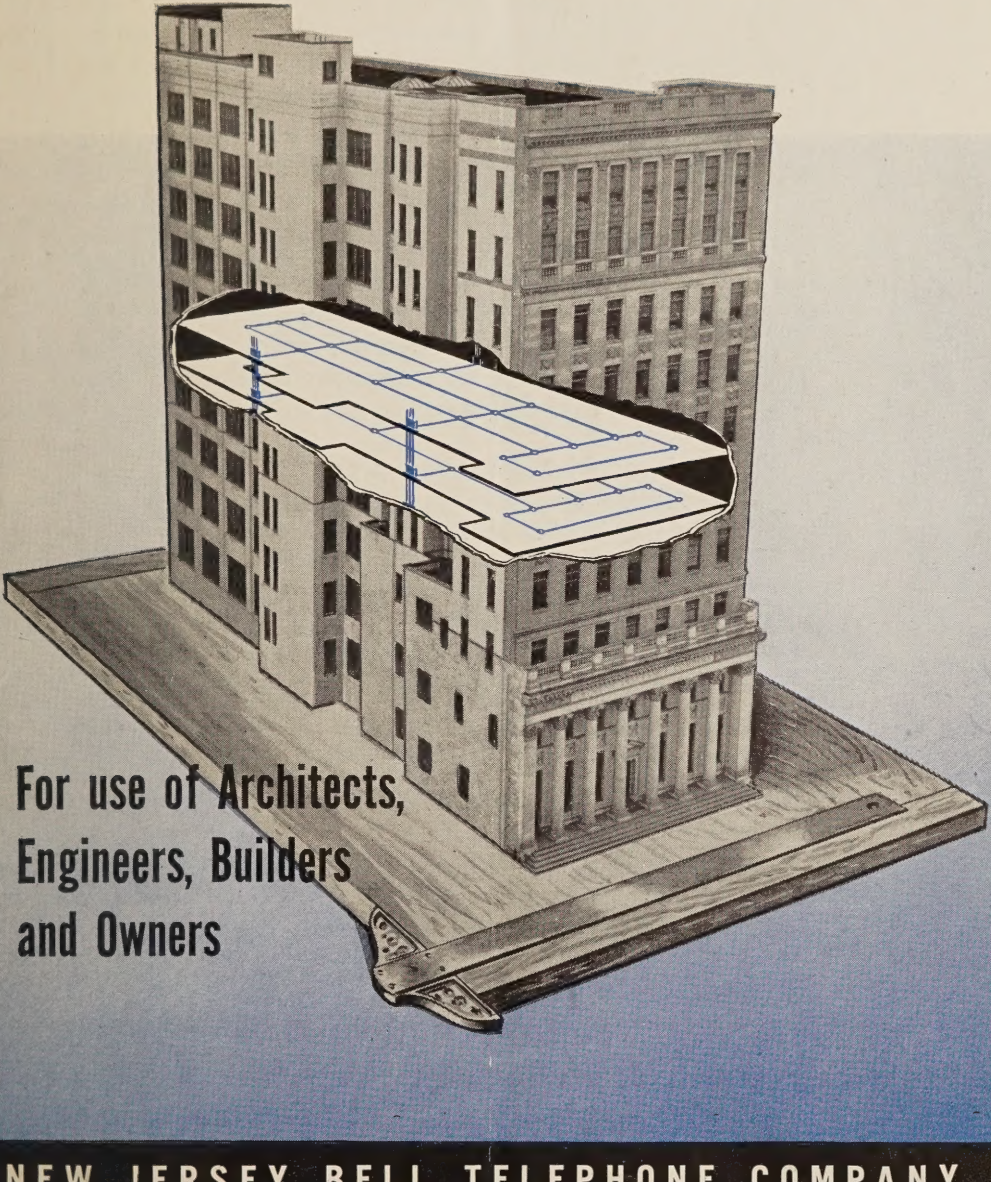
PLANNING FOR TELEPHONES IN BUILDINGS



For use of Architects,
Engineers, Builders
and Owners

NEW JERSEY BELL TELEPHONE COMPANY

IN THIS DAY of mass production, streamlined planes and automobiles, and prefabrication of buildings, public attention is constantly being focused on modern design.

Within new office and loft buildings, stores and other industrial structures, every effort is toward functional design, with concealed radiation, indirect lighting, and smooth, continuous walls devoid of dust catchers.

This booklet has been prepared to emphasize the growing importance of providing built-in conduit systems in walls and floors of new structures to insure protected, out-of-sight telephone wires and cables.

Convenient outlets from built-in conduits permit telephone service anywhere with protected, out-of-sight wiring.

IN OFFICE or store or factory, as in apartment houses and homes, provision of adequate built-in conduits for telephones *during construction* makes possible the concealment of telephone wires and cables . . . protects them from damage that may interrupt service . . . and provides a flexibility that makes possible easy rearrangements and changes in the location or number of telephones . . . all without the noise and dirt and annoyance of drilling through walls and floors or the interference with business routines.

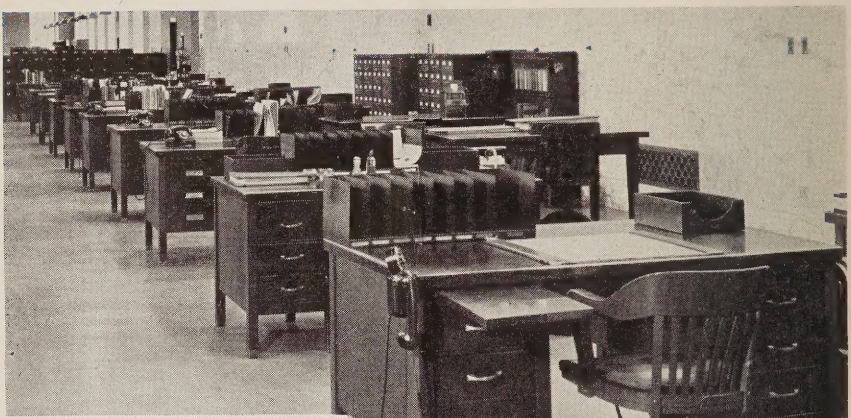
Properly designed conduit systems mean greater satisfaction for owner or tenant, and greater assurance of the best possible telephone arrangements at all times.

These systems are not provided by the telephone company because, in common with other utilities equipment such as water and gas pipes, and conduits for electric light and power lines, they become a permanent part of the building.

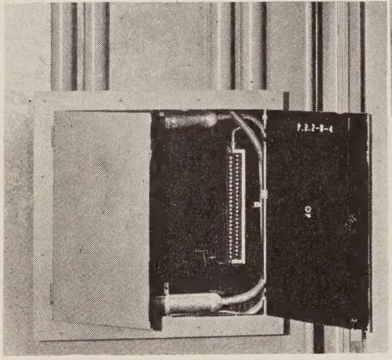
Various methods of constructing conduit systems, and various types of conduit material may be used. A few of the more common ones are described on the pages that follow.

Our telephone engineers will be glad to talk with you about conduit installations. You can make arrangements at any of our Business Offices.

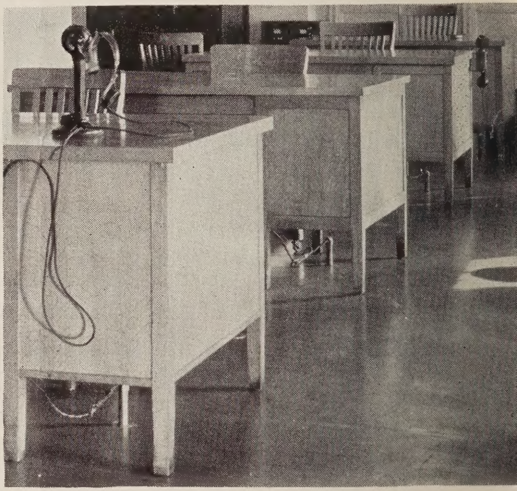
Here's how Modern Buildings



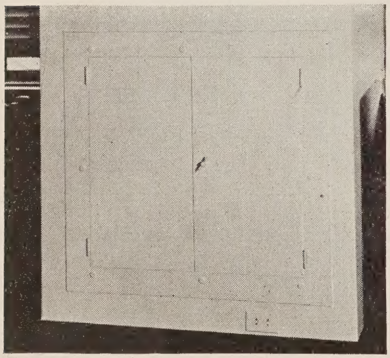
Side wall telephone outlets—wires concealed and protected



Basement or factory installation—cables protected

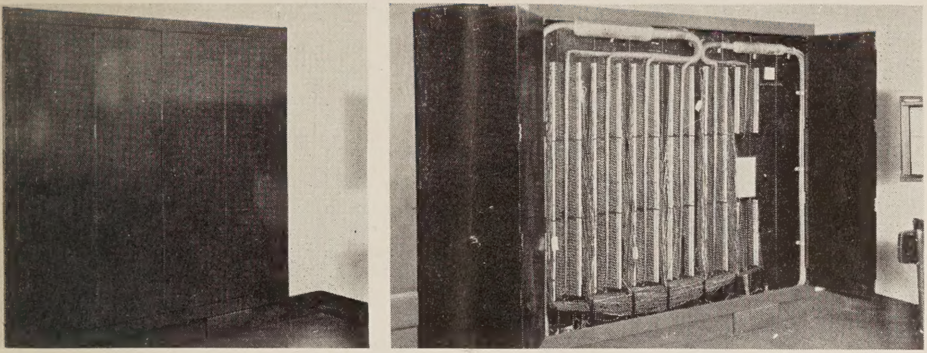


Underfloor conduit—wires concealed and protected



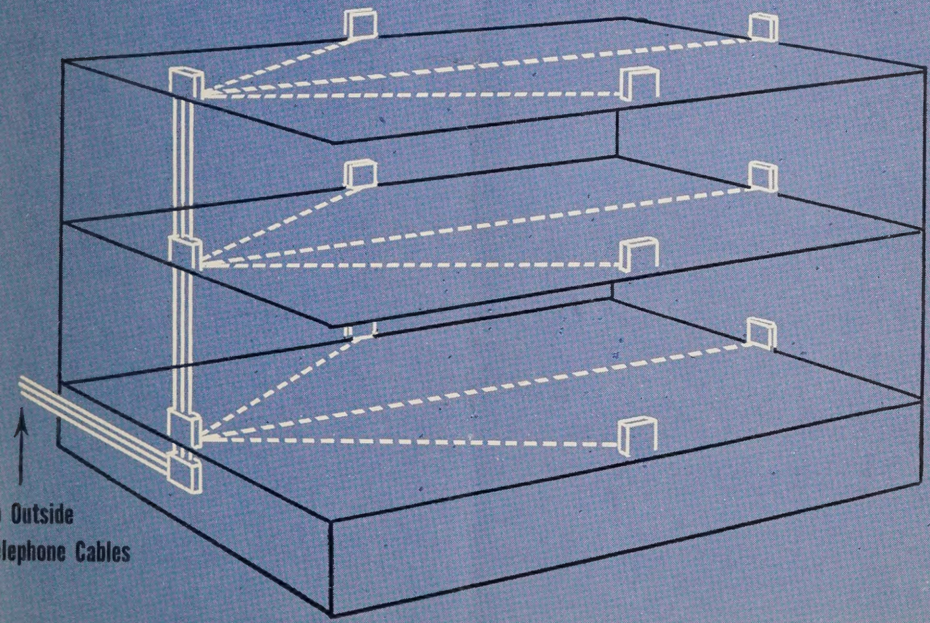
Flush-with-wall cabinet conceals and protects telephone cables

Built-in Telephone Conduit . . .



Built-in terminal box—entrance cables concealed and protected.

BELOW is a simple, single-conduit system for an office building. Sizes of all conduits — including riser ducts between floors, and main header ducts leading to distributing terminal cabinets (at sides of building) — will be determined by the size of cables needed to meet expected telephone service requirements.

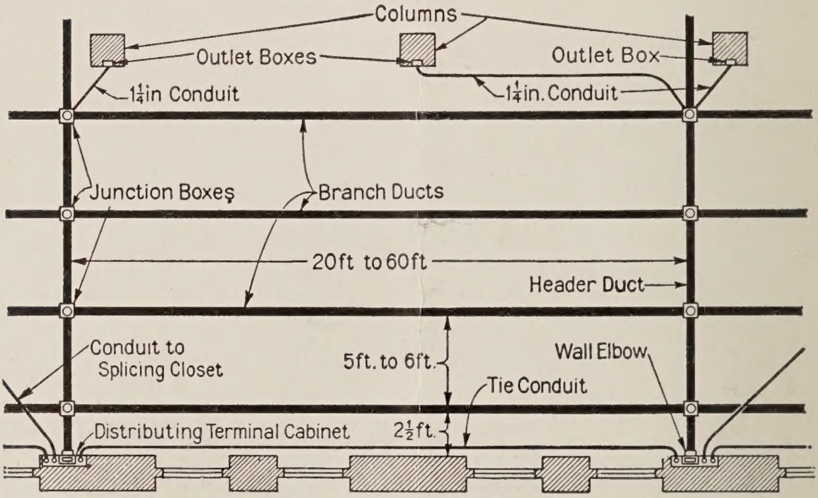


PLANNING FOR TELEPHONES IN BUILDINGS

Conduit may be made of fibre — steel — or other suitable material. Under certain conditions (for example, where telephones will never be needed except along walls) special baseboard raceways or decorative mouldings of either wood or steel may be used.

In some instances, conduit with pre-inserted flush-with-the-floor outlets are desirable; in others, conduit may be installed so that it may be drilled into, and an outlet inserted, at any point where a telephone is required.

A detailed section of a typical, single-duct underfloor system is shown below. If required, for greater capacity, *double* rather than single header ducts across the network may be used.

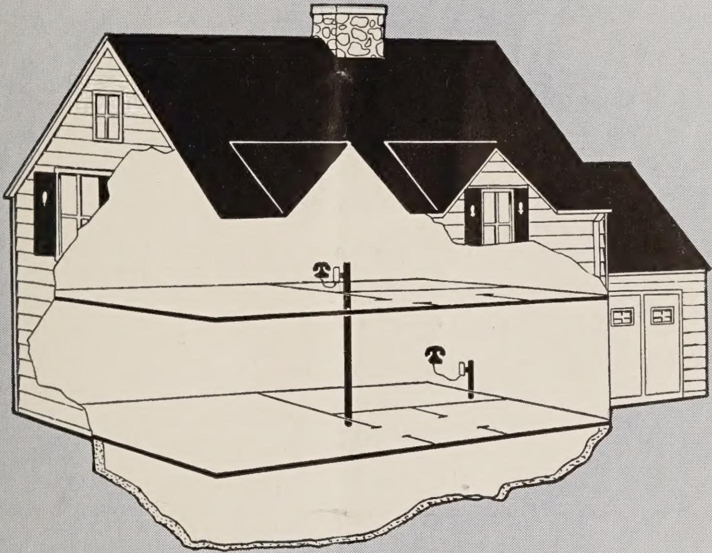


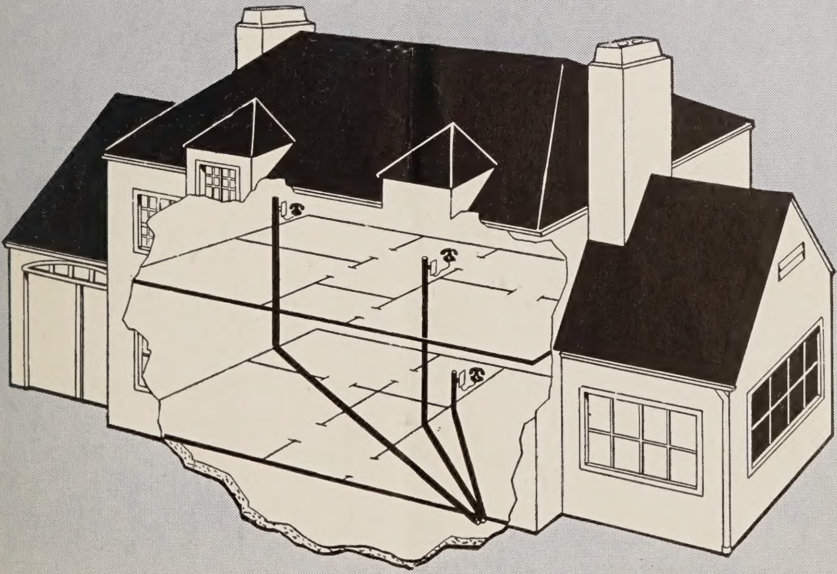
Our telephone engineer will be glad to suggest the right conduit installation to fit your particular needs. You can reach him through your local Telephone Business Office.

Conduit for the Home, too

Below are shown simple, inexpensive built-in conduit layouts for the small-medium and larger home.

A wall outlet plate marks each telephone location. A short wire from the telephone to this outlet connects with the main wire that has been brought up through concealed wall conduit and terminates in an outlet box hidden in the wall. Wires are safe — and *out of sight.*





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